

IN THE CLAIMS:

Please amend the claims to read as follows:

Listing of Claims

Claims 1-15 (Canceled).

16. (New) A transmitting apparatus used in a mobile communication system to transmit a signal by radio to a communicating party, the transmitting apparatus comprising:

a symbol rate determiner that determines a symbol rate of a transmitting signal based on a channel variation speed between transmission and reception of a received signal, said symbol rate of the transmitting signal being made greater in response to an increase in the channel variation speed so as to make a channel variation between symbols or in a burst relatively minute; and

a transmitter that transmits data by radio based on said determined symbol rate.

17. (New) The transmitting apparatus according to claim 16, wherein said symbol rate determiner determines the symbol rate such that a product of a transmitting time and a channel variation speed per symbol maintains a constant value.

18. (New) A transmitting apparatus used in a mobile communication system to transmit a signal by radio to a communicating party, the transmitting apparatus comprising:

a symbol rate determiner that determines a symbol rate that minimizes an error rate based on a channel variation speed and a relative delay time of multipaths; and

a transmitter that transmits data by radio based on said determined symbol rate.

19. (New) A transmitting apparatus used in a mobile communication system to transmit a signal by radio to a communicating party, the transmitting apparatus comprising:

a symbol rate determiner that determines a symbol rate that minimizes an error rate based on a channel variation speed and a delay profile; and

a transmitter that transmits data by radio based on said determined symbol rate.

20. (New) The transmitting apparatus according to claim 16, further comprising a carrier wave frequency controller that controls a central frequency of a carrier wave based on the determined symbol rate.

21. (New) The transmitting apparatus according to claim 16, wherein said transmitter transmits a signal only in a period of a high received signal level.

22. (New) The transmitting apparatus according to claim 16, wherein said symbol rate determiner extracts information about a symbol rate from a signal transmitted from the communicating party.

23. (New) A receiving apparatus comprising:
a receiver that extracts received data from a signal transmitted from the transmitting apparatus of claim 7;
a channel variation estimator that estimates a channel variation based on the received data;
a symbol rate determiner that determines a symbol rate based on the estimated channel variation; and
a transmitter that transmits a signal indicative of the determined symbol rate to said transmitting apparatus.

24. (New) A base station apparatus, used in a mobile communication system, having a transmitting apparatus that transmits a signal to a communicating party, said transmitting apparatus comprising:

a symbol rate determiner that determines a symbol rate of a transmitting signal based on a channel variation speed between transmission and reception of a received signal, said symbol rate of the transmitting signal being made greater in response to an increase in the channel variation speed; and

a transmitter that transmits data by radio based on said determined symbol rate.

25. (New) A base station apparatus having a receiving apparatus, said receiving apparatus comprising:

a receiver that extracts received data from a signal transmitted from the transmitting apparatus described in claim 22;

a channel variation estimator that estimates a channel variation based on the received data;

a symbol rate determiner that determines a symbol rate based on the estimated channel variation; and

a transmitter that transmits a signal indicative of the determined symbol rate to said transmitting apparatus.

26. (New) A communication terminal apparatus, used in a mobile communication system, having a transmitting apparatus that

transmits a signal by radio to a communicating party, said transmitting apparatus comprising:

a symbol rate determiner that determines a symbol rate of a transmitting signal based on a channel variation speed between transmission and reception of a received signal, said symbol rate of the transmitting signal being made greater in response to an increase in the channel variation speed; and

a transmitter that transmits data by radio based on said determined symbol rate.

27. (New) A communication terminal apparatus having a receiving apparatus, said receiving apparatus comprising:

a receiver that extracts received data from a signal transmitted from the transmitting apparatus of claim 22;

a channel variation estimator that estimates a channel variation based on the received data;

a symbol rate determiner that determines a symbol rate based on the estimated channel variation; and

a transmitter that transmits a signal indicative of the determined symbol rate to said transmitting apparatus.

28. (New) A transmitting method used in a mobile communication system to transmit a signal by radio to a communicating party, the method comprising:

detecting a channel variation speed between transmission and reception of a received signal; and

increasing a symbol rate of a transmitting signal in response to an increase in said channel variation speed.

29. (New) A transmitting method used in a mobile communication system to transmit a signal by radio to a communicating party, the method comprising:

detecting a channel variation speed between transmission and reception of a received signal; and

determining a symbol rate of a transmitting signal having a best error rate characteristic from the channel variation speed and relative delay times of multipaths.

30. (New) A transmitting method for use in a mobile communication system for transmitting a signal by radio to a communicating party, the method comprising:

detecting a channel variation speed between transmission and reception of a received signal; and

determining a symbol rate of a transmitting signal having a best error rate characteristic from the channel variation speed and a delay profile.